

Section II
Soil and Site Information

Building Site Development
Sanborn County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Alwilda-----	90	Not limited		Very limited Cutbanks cave	1.00	Not limited	
AaB: Alwilda-----	95	Not limited		Very limited Cutbanks cave	1.00	Not limited	
Ab: Artesian-----	55	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Too clayey Depth to saturated zone Cutbanks cave	0.72 0.61 0.10	Very limited Too clayey	1.00
Farmsworth-----	35	Very limited Low strength Shrink-swell Frost action Flooding Depth to saturated zone	1.00 1.00 0.50 0.40 0.03	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content Depth to saturated zone	1.00 0.03
BaE: Betts-----	85	Very limited Slope Low strength Shrink-swell Frost action	1.00 1.00 0.50 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
BbD: Betts-----	45	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
Ethan-----	35	Very limited Low strength Slope Shrink-swell Frost action	1.00 0.63 0.50 0.50	Somewhat limited Slope Cutbanks cave	0.63 0.10	Somewhat limited Slope	0.63
BcA: Blendon-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BcB: Blendon-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
Bd: Bon-----	98	Very limited Frost action Flooding Low strength	1.00 1.00 0.22	Somewhat limited Flooding Depth to saturated zone Cutbanks cave	0.80 0.61 0.10	Very limited Flooding	1.00
CaA: Carthage-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.82	Not limited	
CaB: Carthage-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.82	Not limited	
CbA: Carthage-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.82	Not limited	
Clarno-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
CcB: Carthage-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.82	Not limited	
Hand-----	30	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Very limited Cutbanks cave	1.00	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cd: Clamo-----	85	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	1.00	Too clayey	0.03		
		Depth to saturated zone	1.00				
Ce: Clamo-----	90	Very limited Frost action	1.00	Very limited Depth to saturated zone	1.00	Very limited Too clayey	1.00
		Flooding	1.00	Flooding	0.60	Depth to saturated zone	1.00
		Low strength	1.00	Cutbanks cave	0.10	Flooding	0.60
		Shrink-swell	1.00	Too clayey	0.03		
		Depth to saturated zone	1.00				
Cf: Clamo-----	100	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Flooding	1.00
		Frost action	1.00	Ponding	1.00	Depth to saturated zone	1.00
		Flooding	1.00	Flooding	0.80	Too clayey	1.00
		Low strength	1.00	Too clayey	0.12	Ponding	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10		
CgA: Clarno-----	90	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
ChB: Clarno-----	45	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
		Shrink-swell	0.50				
		Frost action	0.50				
Bonilla-----	30	Very limited Low strength	1.00	Somewhat limited Depth to saturated zone	0.47	Not limited	
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CkB: Clarno-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Dudley-----	25	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Very limited Sodium content	1.00
CmB: Clarno-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
CoA: Clarno-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Prosper-----	30	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
DaB: Davis-----	90	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Db: Davison-----	85	Very limited Frost action Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dc: Davison Variant-----	85	Very limited Frost action	1.00	Somewhat limited Depth to saturated zone Cutbanks cave	0.95 0.10	Not limited	
DdA: Delmont-----	85	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.07
DeA: Doger-----	85	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.15
DeB: Doger-----	85	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.15
DfA: Dudley-----	30	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.95 0.10 0.03	Very limited Sodium content	1.00
Jerauld-----	30	Very limited Low strength Shrink-swell	1.00 1.00	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content	1.00
Clarno-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Dh: Durrstein-----	85	Very limited Shrink-swell Low strength Depth to saturated zone Frost action Flooding	1.00 1.00 1.00 0.50 0.40	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content Depth to saturated zone Salinity	1.00 1.00 1.00

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Dk: Durrstein-----	50	Very limited Shrink-swell	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Low strength	1.00	Too clayey	0.28	Depth to saturated zone	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10	Salinity	1.00
		Frost action	0.50				
		Flooding	0.40				
Farmsworth-----	30	Very limited Low strength	1.00	Very limited Depth to saturated zone	1.00	Very limited Sodium content	1.00
		Shrink-swell	1.00	Too clayey	0.28	Depth to saturated zone	0.03
		Frost action	0.50	Cutbanks cave	0.10		
		Flooding	0.40				
		Depth to saturated zone	0.03				
Ea: Elsmere-----	85	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.01
Eb: Elsmere-----	55	Very limited Frost action	1.00	Very limited Cutbanks cave	1.00	Somewhat limited Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Droughty	0.01
Orwet-----	25	Somewhat limited Depth to saturated zone	0.75	Very limited Depth to saturated zone	1.00	Somewhat limited Depth to saturated zone	0.75
		Frost action	0.50	Cutbanks cave	1.00		
		Flooding	0.40				
ECA: Enet-----	85	Not limited		Very limited Cutbanks cave	1.00	Not limited	
EdB: Enet-----	55	Not limited		Very limited Cutbanks cave	1.00	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Delmont-----	30	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.07
EeC: Ethan-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Clarno-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Fa: Fedora-----	75	Very limited Frost action Depth to saturated zone	1.00 1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Very limited Depth to saturated zone	1.00
FbA: Forestburg-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.90	Not limited	
FcB: Forestburg-----	60	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.90	Not limited	
Ethan-----	20	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
FcC: Forestburg-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.90	Not limited	
Ethan-----	35	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HaA: Hand-----	45	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Very limited Cutbanks cave	1.00	Not limited	
Bonilla-----	30	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HbB: Hand-----	50	Somewhat limited Shrink-swell Frost action Low strength	0.50 0.50 0.22	Very limited Cutbanks cave	1.00	Not limited	
Ethan-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
HcB: Houdek-----	45	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Dudley-----	25	Very limited Shrink-swell Low strength Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.47 0.10 0.03	Very limited Sodium content	1.00
HdB: Houdek-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Ethan-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HeA: Houdek-----	55	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Prosper-----	25	Very limited Frost action Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HeB: Houdek-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Prosper-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
HfA: Houdek-----	50	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Stickney-----	25	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.47 0.10	Not limited	
Hk: Hoven-----	90	Very limited Depth to saturated zone Low strength Shrink-swell Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HmA: Hoven-----	50	Very limited Depth to saturated zone Low strength Shrink-swell Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00
Durrstein-----	40	Very limited Shrink-swell Low strength Depth to saturated zone Frost action Flooding	1.00 1.00 1.00 0.50 0.40	Very limited Depth to saturated zone Too clayey Cutbanks cave	1.00 0.28 0.10	Very limited Sodium content Depth to saturated zone Salinity	1.00 1.00 1.00
Ia: Ipage-----	50	Somewhat limited Frost action	0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Somewhat limited Droughty	0.36
Els-----	30	Somewhat limited Frost action Depth to saturated zone	0.50 0.03	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Somewhat limited Droughty Depth to saturated zone	0.41 0.03
Ja: James-----	90	Very limited Shrink-swell Depth to saturated zone Frost action Flooding Low strength	1.00 1.00 1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Too clayey Cutbanks cave	1.00 0.80 0.28 0.10	Very limited Flooding Salinity Depth to saturated zone Too clayey	1.00 1.00 1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
La: Lamo-----	90	Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
Lb: Lute-----	85	Very limited Frost action Flooding Depth to saturated zone	1.00 0.40 0.19	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Very limited Sodium content Depth to saturated zone Salinity	1.00 0.19 0.01
Lc: Lute-----	90	Very limited Depth to saturated zone Frost action Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding	1.00 1.00 1.00	Very limited Sodium content Depth to saturated zone Ponding	1.00 1.00 1.00
LdA: Lute-----	55	Very limited Frost action Depth to saturated zone	1.00 0.19	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Very limited Sodium content Depth to saturated zone Salinity	1.00 0.19 0.01
Whitelake-----	30	Very limited Frost action Shrink-swell	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Very limited Sodium content	1.00
M-W: Miscellaneous Water Area-----	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Oa: Orwet-----	85	Somewhat limited Depth to saturated zone Frost action Flooding	0.75 0.50 0.40	Very limited Depth to saturated zone Cutbanks cave	1.00 1.00	Somewhat limited Depth to saturated zone	0.75
Pa: Orthents, Gravelly--	100	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty Gravel content	0.91 0.25
Sa: Shue-----	60	Somewhat limited Frost action Flooding Depth to saturated zone	0.50 0.40 0.19	Very limited Cutbanks cave Depth to saturated zone	1.00 1.00	Somewhat limited Depth to saturated zone	0.19
Davison-----	20	Very limited Frost action Shrink-swell Low strength	1.00 0.50 0.22	Somewhat limited Depth to saturated zone Cutbanks cave	0.95 0.10	Not limited	
Sb: Shue Variant-----	90	Very limited Depth to saturated zone Frost action Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Cutbanks cave Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Droughty	1.00 1.00 0.01
Ta: Tetonka-----	100	Very limited Ponding Depth to saturated zone Low strength Shrink-swell Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Tb: Tetonka-----	90	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
TcA: Tetonka-----	35	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
Davison-----	30	Very limited Frost action Shrink-swell	1.00 0.50	Somewhat limited Depth to saturated zone Cutbanks cave	0.99 0.10	Not limited	
Clarno-----	25	Very limited Low strength Shrink-swell Frost action	1.00 0.50 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Td: Tetonka Variant----	90	Very limited Ponding Depth to saturated zone Frost action Shrink-swell	1.00 1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Cutbanks cave	1.00 1.00 1.00	Very limited Ponding Depth to saturated zone	1.00 1.00
VaC: Valentine-----	85	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.88
W: Water-----	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wa: Wann-----	85	Very limited Frost action Flooding	1.00 1.00	Very limited Cutbanks cave Depth to saturated zone Flooding	1.00 1.00 0.60	Somewhat limited Flooding	0.60
Wb: Wann-----	50	Very limited Frost action Flooding	1.00 1.00	Very limited Cutbanks cave Depth to saturated zone Flooding	1.00 1.00 0.60	Somewhat limited Flooding	0.60
Lamo-----	40	Very limited Frost action Flooding Low strength Shrink-swell Depth to saturated zone	1.00 1.00 1.00 0.50 0.19	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.60 0.10	Somewhat limited Flooding Depth to saturated zone	0.60 0.19
WcB: Whitelake-----	45	Very limited Frost action Shrink-swell	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Very limited Sodium content	1.00
Woonsocket-----	35	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	
Wd: Woonsocket-----	85	Very limited Frost action	1.00	Very limited Cutbanks cave Depth to saturated zone	1.00 0.61	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
We: Worthing-----	95	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00
Wk: Worthing-----	95	Very limited Ponding Depth to saturated zone Frost action Low strength Shrink-swell	1.00 1.00 1.00 1.00 1.00	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.50 0.10	Very limited Ponding Depth to saturated zone	1.00 1.00